

SECTION 1: Identification

1.1. Product identifier

Product form	: Mixture
Trade name	: Warrior Water Based Alkali Resistant Bonding Liquid
Type of product	: Water-based paints
Product code	: FFA110
Product group	: Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	: COATING AND PAINTING
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1.3. Supplier's details

Manufacturer

Warrior Paints & Coatings
 45 Frans du Toit Street
 P.O. Box 911-1181
 0200 Rosslyn, Pretoria - South Africa
 T 12 5413596 - F +27 12 5411434
info@warriorpaints.co.za - www.warriorpaints.co.za

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Flammable liquids Not classified		Water based paint ,high percentage of water
Specific target organ toxicity — single exposure, Category 1	H370	
Hazardous to the aquatic environment — Acute Hazard, Category 3	H402	
Full text of H statements : see section 16		

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA) :



GHS08

Signal word (GHS-ZA)	: Danger
Hazardous ingredients	: Heavy Aromatic Petroleum Solvent
Hazard statements (GHS-ZA)	: H370 - Causes damage to organs. H402 - Harmful to aquatic life
Precautionary statements (GHS-ZA)	: P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor. P321 - Specific treatment (see supplemental first aid instruction on this label) P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects	: Causes damage to organs,Harmful to aquatic life
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Warrior Water Based Alkali Resistant Bonding Liquid

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Medium Aliphatic Petroleum Spirit	(CAS-No.) 64742-88-7	1.5 - 4	Flam. Liq. 3, H226 Acute Tox. 5 (Oral), H303 Acute Tox. 4 (Dermal), H312 Acute Tox. Not classified (Inhalation:dust,mist) STOT SE 2, H371 Aquatic Acute 2, H401
Heavy Aromatic Petroleum Solvent	(CAS-No.) 64742-95-5	0.3 - 1.25	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 STOT SE 1, H370 Aquatic Chronic Not classified
Biocide		0.1 - 0.3	Aquatic Acute 2, H401

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Warrior Water Based Alkali Resistant Bonding Liquid

Safety Data Sheet

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid.

Colour : No data available

Odour : No data available

Odour threshold : No data available

pH : 8 - 9

pH solution : No data available

Relative evaporation rate (butylacetate=1) : No data available

Relative evaporation rate (ether=1) : No data available

Melting point : Not applicable

Freezing point : No data available

Boiling point : No data available

Flash point : > 65 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Not applicable

Vapour pressure : No data available

Vapour pressure at 50 °C : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Relative density of saturated gas/air mixture : No data available

Density : 1.3 - 1.5 kg/l

Relative gas density : No data available

Solubility : No data available

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

Warrior Water Based Alkali Resistant Bonding Liquid

Safety Data Sheet

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Lower explosive limit (LEL) : No data available
Upper explosive limit (UEL) : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Biocide	
LD50 oral rat	> 2500 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	5.71 mg/l/4h
Medium Aliphatic Petroleum Spirit (64742-88-7)	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat (mg/l)	5.28 mg/l/4h
Heavy Aromatic Petroleum Solvent (64742-95-5)	
LD50 oral rat	512 - 6631 mg/kg
LD50 dermal rat	2000 mg/kg
LD50 dermal rabbit	5000 ml/kg
LC50 inhalation rat (ppm)	5922 - 6700 ppmv/4h

Skin corrosion/irritation : Not classified
pH: 8 - 9
Serious eye damage/irritation : Not classified
pH: 8 - 9
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Causes damage to organs.

Medium Aliphatic Petroleum Spirit (64742-88-7)	
NOAEL (oral, rat)	750 mg/kg bodyweight
NOAEC (inhalation, rat, vapour)	24
Heavy Aromatic Petroleum Solvent (64742-95-5)	
LOAEL (oral, rat)	25 - 1250 mg/kg bodyweight
LOAEL (dermal, rat/rabbit)	165 mg/kg bodyweight
NOAEL (oral, rat)	4 - 750 mg/kg bodyweight
NOAEL (dermal, rat/rabbit)	495 mg/kg bodyweight

STOT-repeated exposure : Not classified

Warrior Water Based Alkali Resistant Bonding Liquid

Safety Data Sheet

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Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life.
Acute aquatic toxicity : Harmful to aquatic life.
Chronic aquatic toxicity : Not classified

Biocide

LC50 fish 1	6.4 mg/l
EC50 Daphnia 1	32 mg/l

Medium Aliphatic Petroleum Spirit (64742-88-7)

LC50 fish 1	8.1 mg/l
EC50 Daphnia 1	6 mg/l
ErC50 (algae)	9.4 mg/l

Heavy Aromatic Petroleum Solvent (64742-95-5)

LC50 fish 1	0.58 - 8.41 mg/l
EC50 Daphnia 1	760 - 4700 µg/l
NOEC chronic fish	5.6 mg/l

12.2. Persistence and degradability

Warrior Water Based Alkali Resistant Bonding Liquid

Persistence and degradability : No additional information available

12.3. Bioaccumulative potential

Warrior Water Based Alkali Resistant Bonding Liquid

Bioaccumulative potential : No additional information available

12.4. Mobility in soil

Warrior Water Based Alkali Resistant Bonding Liquid

Mobility in soil : No additional information available

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
: No supplementary information available		

14.6. Special precautions for user

- SANS

No data available

Warrior Water Based Alkali Resistant Bonding Liquid

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

- IMDG

No data available

- IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

No additional information available

SECTION 16: Other information

Date of issue : 04/05/2021

Full text of H-statements:

H226	Flammable liquid and vapour.
H303	May be harmful if swallowed
H312	Harmful in contact with skin.
H370	Causes damage to organs.
H371	May cause damage to organs.
H401	Toxic to aquatic life
H402	Harmful to aquatic life

SDS South Africa

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product